

## **LOW POWER RF CONTROL SYSTEM**

### **ABSTRACT**

A low power rf control system includes a controller that operates at a low clock speed when an associated rf receiver is deenergized and a high clock speed when the controller energizes the receiver. The receiver can be on for a short period, off for a short period if no preamble pulses from a remote control device are received, on for a short period, and then off for a longer period until the next cycle. The receiver remains on to process a command signal when a preamble signal is detected. A DC-DC down converter can be used as a power supply for the receiver, and a SAW resonant circuit can be used as an IF oscillator for the receiver. An LC filter can be associated with the receiver for filtering the IF signal.